KIITPOLYTECHNIC,BHUBANESWAR

LESSONPLAN

Session(2023-2024)

Discipline: ComputerScience&Engineering	Semester: 6th,Summer/2024	NameoftheTeachingFaculty: Mr.AmalenduKumarPradhan,LecturerE mailID:amalendufcs@kp.kiit.ac.in
Subject: Cloud Computing Theory-03	**No. Of Days/Week:04**	**StartDate:**16/01/2024. **EndDate:**

Week	ClassDay	TheoryTopics
1st	**1st**	**Unit-1:IntroductiontoCloudComputing** Historicaldevelopment
	2nd	VisionofCloudComputing
	3rd	CharacteristicsofCloudcomputing
	4th	CharacteristicsofCloudcomputing
2nd	**1st**	**Unit-2:CloudComputingArchitecture** Introduction CloudReferenceModel
	2nd	Typesof Clouds
	3rd	CloudInteroperabilityandstandards CloudcomputingInteroperabilityusecases
	4th	RoleofstandardsinCloudComputing environment
3rd	**1st**	**Unit-3:ScalabilityandFaultTolerance** Introduction Scalability and Fault ToleranceCloudsolutions CloudEcosystem
	2nd	Cloud Business process managementPortabilityandInteroperability CloudServicemanagement
	3rd	TestingunderControl CloudOfferings
	4th	Cloud service ControlsVirtualdesktopInfrastructure

4th	1st	**Unit-4: Cloud Management andVirtualization Technology**CreateavirtualizedArchitecture. DataCentre Resilience Agility
	2nd	CiscoDataCentreNetworkarchitecture
	3rd	StoragePro visioning AssetManagement ConceptofMapReduceC loudGovernance
	4th	LoadBalancing High AvailabilityDisaste rRecovery
5th	1st	**Unit–5:Virtualization**Virtuali zationVirtualisationben efits
	2nd	DesktopandApplicationVirtualisation NetworkVirtualisation
	3rd	LocaldesktopVirtualisation Desktopasaservice
	4th	**QUIZTEST**
6th	1st	ServerVirtualisation
	2nd	BlockandFilelevelStorageVirtualisation
	3rd	VirtualMachineMonitor
	4th	InfrastructureRequirements
7th	1st	VLANandVSAN
	2nd	**Unit-6:CloudSecurity** CloudSecurityFundamentals
	3rd	Cloudsecurityservices
	4th	Cloudsecurityservices
8th	1st	DesignPrinciples
	2nd	SecureCloudsoftwarerequirements
	3rd	PolicyImplementation
	4th	CloudComputingSecurityChallenges
9th	1st	**Unit-7:CloudComputingSecurityArchitecture**
	2nd	ArchitecturalConsiderations
	3rd	InformationClassification
	4th	VirtualPrivateNetworks

10th	1st	PublicKeyandEncryptionKeymanagement
	2nd	Digitalcertificates
	3rd	Keymanagement
	4th	MemoryCards
11th	1st	ImplementingIdentityManagement
	2nd	ControlsandAutonomicSystem
	3rd	**Unit-8:MarketBasedManagementofClouds**
	4th	CloudInformationsecurityvendors
12th	1st	CloudFederation,characterization
	2nd	CloudFederationstack
	3rd	ThirdPartyCloudservice
	4th	Casestudy
13th	1st	**Unit-9:Hadoop**
	2nd	Introduction
	3rd	DataSource
	4th	DatastorageandAnalysis
14th	1st	Comparisonwithothersystem
	2nd	**QuizTest**
	3rd	**Revision**
	4th	**Revision**
15th	1st	**DiscussionofQuestionAnswer**
	2nd	**DiscussionofQuestionAnswer**
	3rd	**DiscussionofQuestionAnswer**
	4th	**DiscussionofQuestionAnswer**